

Abstract

In an optical wireless network, where light beams are transmitted
5 over-the-air, reflections of the transmitted light beams may cause a receiver
of an optical wireless device to detect and subsequently lock onto the signal
that it transmitted. By doing so, the network is effectively broken. A method
and apparatus to detect the reception of reflected signals using minimal
additional hardware and data is presented. Should a reflected signal be
10 detected, the receiver is prevented from locking onto the signal, allowing the
receiver to detect and subsequently lock onto light beams originating from
other optical wireless devices.